

# Sustainable Maintenance of Green Spaces

Neale Baldyga Columbia College Chicago

## Native Garden



- A plant that lives or grows naturally in a particular region without direct or indirect human intervention. These plants have co-evolved with animals, fungi and microbes and are the foundation of their native ecosystems.
- Native plants are great for maintaining a balanced ecosystem and are more likely to thrive under the local environmental conditions. They maintain or improve soil fertility, provide familiar sources of food and shelter for local wildlife, reduce erosion, and often require less fertilizer and pesticides than many alien plants which reduces the amount of harmful run-off threatening our water systems.

## **Beautiful Benefits**

 Plants included: Wild Indigo, Coneflower, Black-Eyed Susan, Serviceberry, Mountain Mint, St. Johns Wort, Ninebark, Green Ash, Blue Joint Grass, etc.

 Uses: Film/Video Shoots, Summer Camp, Community Enjoyment, Events

# Maintenance of Native Garden

- Spring: Remove plant debris, Mulch, Apply Compost, Check health of trees, Planting
- Summer: Weeding, Minimal Watering, Mowing, Edging, Pruning
- Fall: Same as above while removing dead materials, raking
- Materials: Push Mower, Electric Weed Whipper, Edger, Gloves, Hose, Shovel, Rake
- Chemical Alternatives: Mothballs and Mint, Organic Compost, Vinegar

# Picture Page





# **Pictures**





# Integrating Green Spaces

 Sign Initiative for identification

Tours

Class Projects

Future Initiatives

## Green Roofs

- Benefits: Aids in urban heat island, Habitat for animals/plants, Reduction of smog, Storm water retention, Thermal resistance, Reduced noise levels, Increased life expectancy, Offsets and incentives, More space
- American Hydrotech installed it in 2008. Media Production Center as of late 2009
- Extensive are very basic, many times include sedum. Intensive require more labor and maintenance, this is where gardens lie.

#### What can go wrong with a green roof?

- Water erosion
- Wind exposure
- Site access
- Roof access
- Building temperature
- Insulation
- HVAC intake
- Material sources
- Budget
- Timeline

- Slope
- Drain locations
- Water sources
- Irrigation
- Plant selection
- Shade/sun
- Climate zone
- Microclimate
- Local flora and fauna
- Roofing membrane selection & conditions





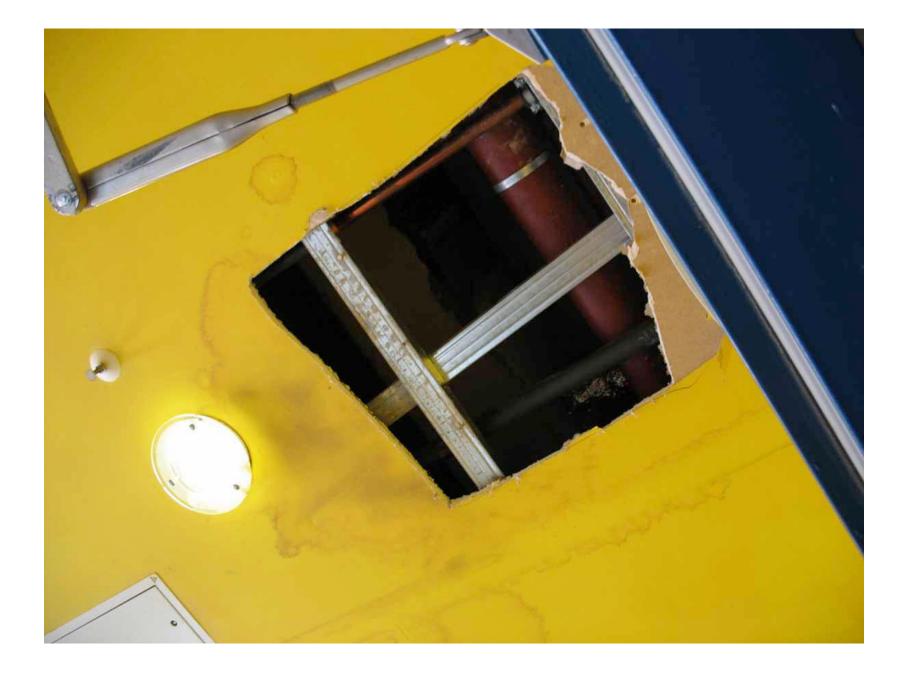


















# State of The Roof

Last year vs. This year

Rooftop Greenworks

 Maintenance: Application of fertilizer + sedum in April/May, Weeding (2-4x per month), Water (3-5x per month)

